Cigarette Butts as litter



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"How inappropriate to call this planet Earth, when clearly it is Ocean."
--Arthur C. Clarke

International Coastal Cleanup in Virginia for 18 years



Data collection and dissemination about litter

Please pick up all debris that you find. Only record information for the items listed below. Keep a count of your items using tick mails and enter the item total in the box. Example: 8 Beverage Cans. + III		
HORELINE AND RECREATIONAL ACTIVITIES		
	Stivals, litter from streets/storm drains, etc.) Oups, Plates, Forks, Knives, Spoons	
Bags (paper or plastic)		
	Food Wappers/Containers	
Beverage Bottles (plastic) 2 liters or less		
	Pull Tabs	
Beverage Bottles (glass)	6-Fack Holdes	
Beverage Cans.	Sholguri Shells/Wadding	
Caps, Lids_	Straws, Strees	
Clathing, Shoes_	Toys	
Bugs/Flats Cab/Lobser/Fish Traps Crates Fishing Line Fishing Line Fishing Line	Ol/Lube Boties Palets Palets Pasto: Sheeing/Tarps Rope: Shapping Binds	
MOKING-RELATED ACTIVITIES	DUMPING ACTIVITIES	
Ogarettes/Cigarette Filters	Appliances (refrigerators, washers, etc.)	
	Batteries	
_	Building Materials	
Ogarette Lighters	Cars/Car Flarts	
Dgar Tips	55-Gal Drums	
Tobacco Packaging/Wrappers	Tres:	
MEDICAL/PERSONAL HYGIENE	DEBRIS ITEMS OF LOCAL CONCERN	
Condoms	(Identify and count 3 other items found that concern you)	
Dapers		
Syringes		



Photo: The Ocean Conservancy

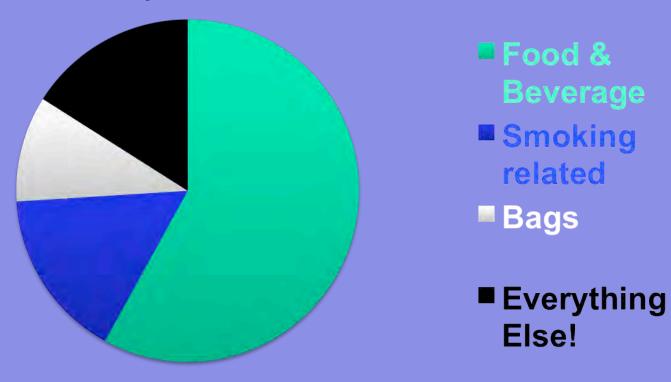
What have we learned over the years of collecting data in Virginia?

Take a guess...

Top 15 items in 15 years

Cigarettes	15 %
Beverage bottles (plastic)	13 %
Food wrappers/containers	11 %
Bags	10 %
Beverage cans	9 %
Glass bottles	9 %
Cups, plates, knives, forks, spoons	7 %
Caps, lids	6 %
Straws, stirrers	3 %
Building materials	2 %
Balloons	2 %
Clothing, shoes	1 %
Fishing line	1 %
Rope	1 %
Tobacco packaging/wrappers	1 %

Top 15 Items Over 15 Years





WHY are so many cigarette butts littered outside?



Photos: Clean Virginia Waterways

Things have changed



Workplace smoking was once the norm.



Now, smokers are outside.







Smoking by entrances has created issues, as have cars that no longer have ashtrays.



Composition of cigarette filters

Toxic properties: Nicotine & other 10,000 fibers per filter: Cellulose Acetate (not biodegradable)





Solutions to littered smoking-related products

What's been tried:

Educate – Regulate – Innovate

Pocket ashtrays & information to smokers

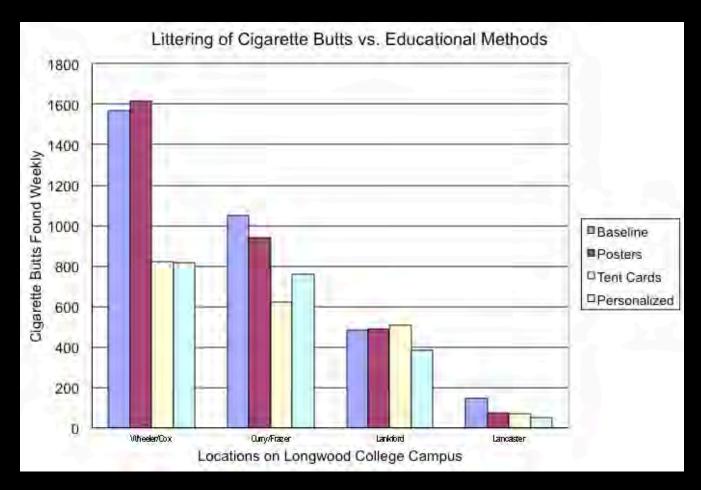


Pocket ashtrays & information to smokers



Pocket ashtrays & information to smokers





Posters, signage & personal email messages reduced cigarette butt litter on a college campus by more than 50%

Regulate

Banning smoking on beaches & in parks

Concentrating smokers

Designated smoking areas

Law of unintended consequences

Bans on indoor smoking has led to smokers going outside...and increased littering of butts.

Campus bans can force smokers onto neighboring properties or into the street.

Market-based solutions

Tax in San Francisco \$.20 a pack for litter

Innovate

Make it easier to do the right thing

Bronwen Evans, Director, Litter Programs

KAB.org
PreventCigaretteLitter.org





Litter in America Research

WWW.KAB.ORG/RESEARCH09

This research was funded by Philip Morris USA, an Altria Company

Tobacco products:

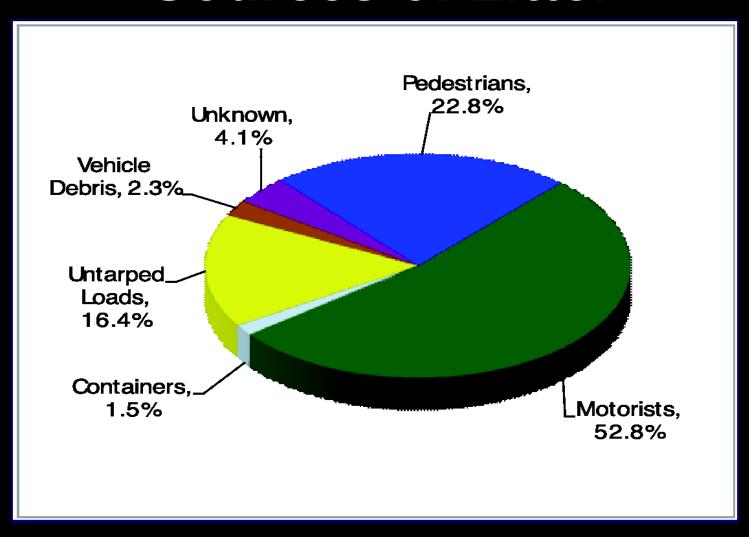
38% of all roadside litter

Harmful in the environment

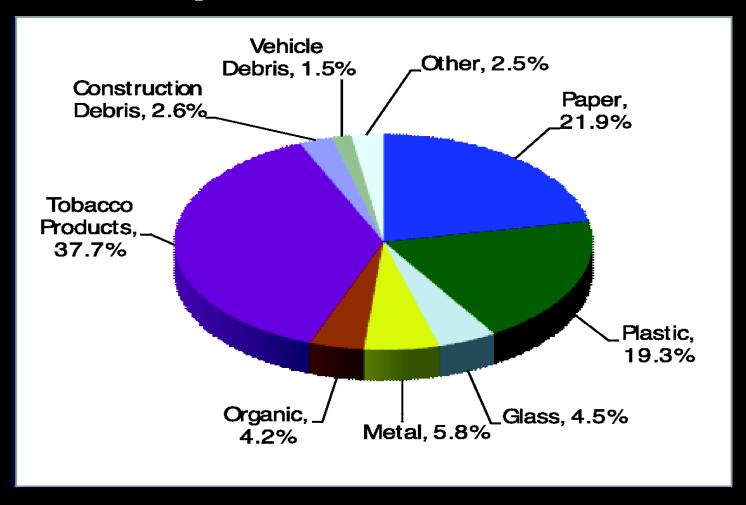
Costly to clean up

Littering rate for cigarette butts: 65%

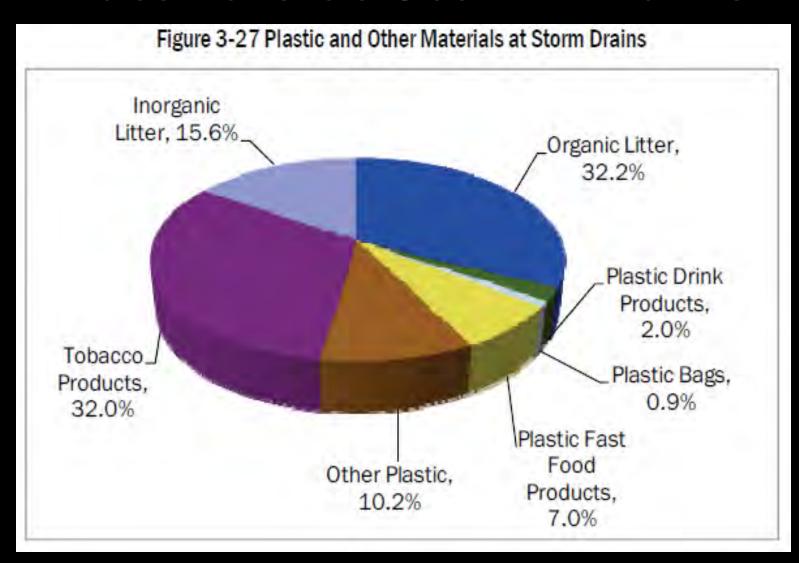
Sources of Litter



Composition of Litter



Materials at Storm Drains



Storm Drain Markers







Cigarette Litter Prevention

Strategies:

- Review and support litter laws
- Educate the public to build awareness
- Install ash receptacles at transition points
- Distribute portable ashtrays to adult smokers

2013 Grants Program







Education



Signage is Key





Ash Receptacles are Key









Smoke Free Zones



Emerging Litter Issues



Emerging Litter Issues



Behavior Change



Contact us



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KEEP AMERICA BEAUTIFUL

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